



# MSIT CSE

## NEWSLETTER



### TECHNOPULSE

This newsletter showcases the achievements of the Computer Science Department (NBA Accredited) of Maharaja Surajmal Institute of Technology.

The CSE Department has published numerous journal entries, patents, articles, books, and research on various topics from all the fun and educational events organized by the department faculty, students and societies.

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# **PROGRAM EDUCATIONAL OBJECTIVES**

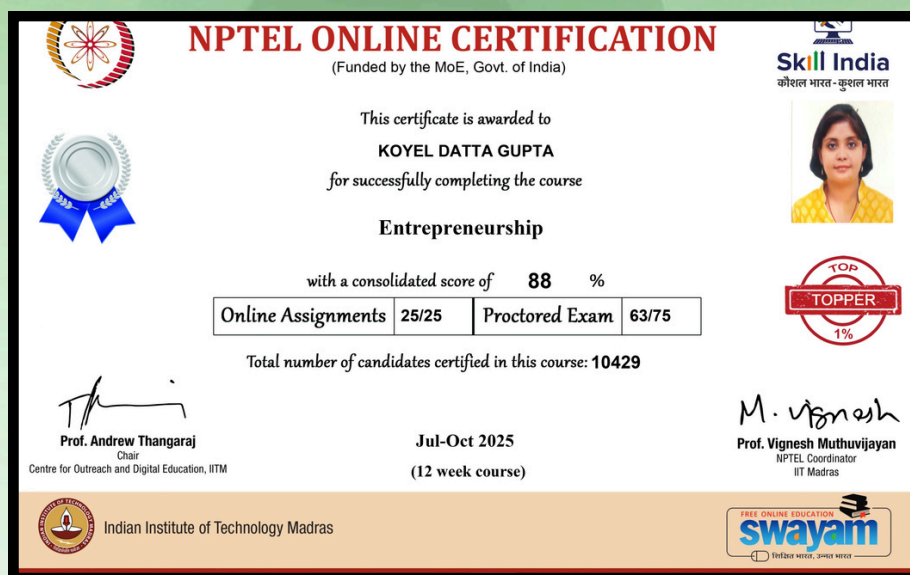
- To acquire a deep insight in mathematical, scientific & analytical skills and adopt self-motivating lifelong learning to explore cutting edge technologies.
- To prepare graduate to meet the evolving technological needs of the country by promoting innovation, ethical practice and a commitment to serving society.
- To acquire necessary technical knowledge to pursue successful professional career posing leadership and team spirit.



# **PROGRAM SPECIFIC OBJECTIVES**

- Ability to demonstrate the comprehended fundamentals of computer engineering to resolve mathematical and computational problems.
- Ability to explore evolutionary changes in computing by skills acquired through computer engineering principles and provide solutions through innovative ideas.
- Ability to imbibe knowledge in modern computer environments and languages to gain additional skills for a successful career and higher studies.

# FACULTY ACHIEVEMENTS



**Dr. Koyel Datta Gupta, Professor, Vidwan ID: 240950**, has topped the 12-Week NPTEL MOOC course "Entrepreneurship" (July–October 2025). This is the fifth consecutive year (2022, 2023, 2024, 2025(Jan-March),2025(July-Oct)) that she has topped different NPTEL Computer Science courses.

# JOURNALS

- **N. Kumar**, "Intelligent Customer Segmentation: Unveiling Consumer Patterns with Machine Learning", Journal of Umm Al-Qura University for Engineering and Architecture, vol. 2025, pp. 1-10, Jul 2025.(Scopus)
- **G. Dhand**, **K. Sheoran**, R. Jain, **V. Garg**, **S. Malik**, **K. D. Gupta**, A. Kaur and N. Aggarwal, "Analysis Of Deep Learning Algorithms For Image Classification", Proceedings on Engineering Sciences, vol. 7, no. 3, pp. 1771-1780, Sep 2025.(Scopus)
- D. Yadav, A. Kumar, R. Kamra, **K. D. Gupta**, A. Balyan and P. Azad, "Impact Of Energy Efficient Green Data Centers: Structures And Methodologies Systematic Review", Proceedings on Engineering Sciences, vol. 7, no. 3, pp. 1749-1758, Sep 2025.(Scopus)
- Priti, D. Singh and **S. Ahlawat**, "Machine Learning Approaches To Natural Scenes Classification: A Comprehensive Review", Proceedings on Engineering Sciences, vol. 7, no. 3, pp. 1911-1928, Nov 2025.(Scopus)

# JOURNALS

- J. Singh, S. M. P. Gangadharan, P. Singh, M. Diwakar, S. Mall, A. Bijalwan and **S. Kumar**, "A Novel Model Utilizing Deep Neural Networks For Opinion Mining", International Journal of Computational Intelligence Systems, vol. 18, no. 234, pp. 1-20, Oct 2025.(SCI)
- J. Mondal, S. Pine, B. K. Paikaray, **A. Yadav** and **Shalu**, "Interpreted Social Graph Traversal Algorithms For Enhanced Recommendation Precision And Efficiency In Computational Applications", International Journal of Applied Nonlinear Science, vol. 5, no. 1, pp. 42-56, Oct 2025.(ESCI)
- **V. Shokeen**, **S. Kumar**, A. Sharma, A. T. Azar and S. Almutlaq, "Federated Learning Strategies for Enhancing Privacy-Preserving Euclidean Distance Matrix Computation", Engineering, Technology & Applied Science Research, vol. 15, no. 5, pp. 27768-27780, Oct 2025. (Scopus)

# JOURNALS

- D. Dalal, A. Kumar and **S. Kumar**, "Exploring the Role of Machine Learning in Advancing the Sustainable Development Agenda", Proceedings on Engineering Sciences, vol. 7, no. 4, pp. 2433-2444, Dec 2025.(Scopus)
- K. S. Malik, T. R. Rohilla and **S. Kumar**, "Adaptive Mobile Traffic Forecasting Model: Improved Whale Optimization Based Prediction Model", Proceedings on Engineering Sciences, vol. 7, no. 4, pp. 2423-2432, Dec 2025.(Scopus)
- C. Gupta, S. Rehani, P. Kumar, P. Yadav, **N. Jatana**, and S. Singh, "Transient empirical machine learning models based on bitcoin price prediction using high and low values," Recent Advances in Computer Science and Communications, vol. 18, no. 7, 2025.(Scopus)
- S. Singhal, H. L. Majeed, H. M. Ibrahim, **N. Jatana**, C. Gupta, A. Kumar, B. Suri, and O. A. Hassen, "Sentiment analysis on Amazon reviews of mobile phones using machine learning," Technology, vol. 15, p. 19, 2025. (Scopus)

# JOURNALS

- **G. Beniwal** and A. Singhrova, “Energy-efficient smart gateway framework with QoS-aware resource allocation in IoT ecosystem,” *Next Energy*, vol. 9, p. 100413, Sept,2025. (ESCI)
- N. Mathur, S. Sinha, R. K. Tyagi, and **N. Jatana**, “PolyAuth: Multi-polynomial based authentication scheme for secure data sharing in blockchain,” in *Progressive Computational Intelligence, Information Technology and Networking*, CRC Press, pp. 113–119, 2025.(Scopus)
- P. Dalal, **G. Beniwal**, V. Sharma, P. Garg, and K. Ahmed, “Predicting student motivation and engagement through machine learning models,” *TPM–Testing, Psychometrics, Methodology in Applied Psychology*, vol. 32, no. S7, pp. 393–411, Sept,2025.(ESCI)

# CONFERENCES

- **Dr. Naresh Kumar, Professor, Vidwan ID - 241001**  
Paper Name: A Decade of Intelligent and Immersive Learning Technologies in Higher Education: A Bibliometric Analysis of AI, Data Science, XR, and Animation Design (2015–2024)  
Conference Name: International Conference on Innovation, Technology and Sustainable Solutions for a Viksit Bharat  
Date: 18<sup>th</sup> –20<sup>th</sup> September 2025
  
- **Dr. Vimal Gaur, Associate Professor, Vidwan ID - 241010**  
Paper Name: Non-Invasive multi-parameter health monitoring via All purpose PPG system  
Conference Name: NCITIDE 2025  
Date: 18<sup>th</sup>–19<sup>th</sup> November 2025

# CONFERENCES

- **Ms. Sonica Upadhyay, Assistant Professor, Vidwan ID - 241012**

Paper Name: A Multi-Class Text Sentiment Analysis Using Artificial Neural Networks (ANNs)

Conference Name: 2025 7<sup>th</sup> International Conference on Information Systems and Computer Networks (ISCON)

Date: 05<sup>th</sup>-06<sup>th</sup> September 2025

- **Ms. Sonica Upadhyay, Assistant Professor, Vidwan ID - 241012**

Paper Name: Customer Feedback Sentiment Analysis of Social Media Text Using Machine Learning Classifiers.

Conference Name: 2025 2<sup>nd</sup> International Conference on Advanced Computing and Emerging Technologies (ACET)

Date: 21<sup>st</sup> - 22<sup>nd</sup> November 2025

## ALUMNI ACHIEVEMENT



**Tushar Gothwal of Batch 2021-2025, Co-founded a Start Up “Helious AI” aims to strengthen the national security by building a physical AI system that can detect and track activity even in visually-denied environments. He received R&D support from White Knight Corps and also received grant from CMO Delhi.**

# STAR ACHIEVERS



**Ishika Gulia from the Computer Science & Engineering Department has been selected for the prestigious Generation Google Scholarship 2025, Asia Pacific Region. This highly competitive scholarship, offered by Google, recognizes outstanding talent across the region, with only about 5% of applicants being selected.**

**As part of this achievement, she has been awarded a cash prize of USD 2,500. The scholarship aims to support and encourage aspiring technologists in their academic and professional journeys, marking Ishika's accomplishment as a significant milestone in her career.**

## STAR ACHIEVERS



**Pranav Kukreja from the Computer Science & Engineering Department has been selected as the GDG on Campus Organizer (2025–26) at Maharaja Surajmal Institute of Technology. This role, under the Google Developer Groups initiative, recognizes his leadership and active involvement in the tech community.**

**As an organizer, he will contribute to building a culture of innovation and learning by conducting technical events, workshops, and collaborative sessions on campus.**

# SPORTS ACHIEVEMENTS

- **Manish Dagar (65215002724)** of CSE-2 3<sup>rd</sup> semester was among Top 32 in the AIU North Zone Inter-University Men's Kabaddi Championship held on 7<sup>th</sup> to 11<sup>th</sup> October 2025.
- **Harshit Gahlawat (35396302722)** from B.Tech CSE won Silver in 5000m at GGSIPU Annual Sports Meet 2025.
- **Manav Mishra (13815002725)** from B.Tech was selected for the North Zone Inter-University Volleyball Championship in the All India University Championship 2025–26.
- **Harshika Drall (20415002722)** from B.Tech CSE won Gold in Discus Throw at GGSIPU Annual Sports Meet 2025.

# SPORTS ACHIEVEMENTS

- **Sajag Pandey** of B Tech CSE-E, 3<sup>rd</sup> semester participated in Inter Directorate Sports Shooting Championship-2025 in August 2025
- **Gomini Gautam (13915002723)** from B.Tech was selected for the North Zone Inter-University Women Tennis Championship in the All India University Championship 2025–26.
- **Gomini Gautam (13915002723)** from B.Tech CSE won Silver in Triple Jump at GGSIPU Annual Sports Meet 2025.
- **Gomini Gautam (13915002723)** from B.Tech CSE won Bronze in Lawn Tennis at GGSIPU Annual Sports Meet 2025.

# STUDENT ACHIEVEMENTS

- **Biswa Mohan Singh (3915002723) and Naina Sharma (1215002723)** of CSE-1 5<sup>th</sup> semester have secured Rank 4 in The National Kalam STEM conclave-2025 held on 13<sup>th</sup>-15<sup>th</sup> October 2025.
- **Biswa Mohan Singh (3915002723)** of CSE-1 5<sup>th</sup> semester was among Top 15 Finalist in HACKGROUND INDIA 2K25 at ThoughtWorks Office, Gurugram organized by the TechVerse Nexus held on 30<sup>th</sup> August 2025.
- **Manas Gulati (115002723) , Ayush Naik (175002723) , Ayush Kumar (3415002723) and Biswa Mohan Singh (3915002723)** of CSE-1 5<sup>th</sup> semester have won 1<sup>st</sup> Runner Up in ENVISAGE 4.0 Ideathon by E-Cell MSIT held on 31<sup>st</sup> October 2025.
- **Biswa Mohan Singh (3915002723)** of CSE-1 5<sup>th</sup> semester was in Organizing Team in CodeSlayer 2k25, National Hackathon by Devsphere and NIT Delhi held on 1<sup>st</sup> - 2<sup>nd</sup> November 2025.

## STUDENT ACHIEVEMENTS

- **Manas Gulati (115002723) , Ayush Naik (175002723) , Ayush Kumar (3415002723) and Biswa Mohan Singh (3915002723)** of CSE-1 5<sup>th</sup> semester have won 1<sup>st</sup> Runner Up in Build Up Ideathon by GDG MSIT ,ISTE MSIT, GEEK ROOM MSIT held on 7<sup>th</sup> November 2025.
- **Shivam Verma (9715002723)** of CSE-2 5<sup>th</sup> semester was Mentor of BuildUp Ideathon (organized by GDG, GR, ISTE MSIT) held on 7<sup>th</sup> November 2025.
- **Suhani Nagpal (35515002723)** of CSE-2 5<sup>th</sup> semester has won Second Runner Up of HackWithMait6.0(2025) held on 30<sup>th</sup> October to 1<sup>st</sup> November 2025.
- **Vasvi Chopra (2115002723)** of CSE-1 5<sup>th</sup> semester has won Advanced through Round 2 of the TVS Credit EPIC 7.0 Analytics Challenge held on 24<sup>th</sup> September 2025.
- **Vasvi Chopra (2115002723)** of CSE-1 5<sup>th</sup> semester has Participated in Round 1 of the Adobe India Hackathon held on 10<sup>th</sup> July 2025.

## STUDENT ACHIEVEMENTS

- **Rohit Kumar (5215002723)** of CSE-1 5<sup>th</sup> semester has won Top 15 Finalists in The National Kalam STEM conclave-2025 held on 13<sup>th</sup> - 15<sup>th</sup> October 2025.
- **Manas Gulati (115002723)** , **Ayush Naik (175002723)** and **Ayush Kumar (3415002723)** of CSE-1 5<sup>th</sup> semester have participated in The National Kalam STEM conclave-2025 held on 13<sup>th</sup> - 15<sup>th</sup> October 2025.
- **Manas Gulati (115002723)** , **Ayush Naik (175002723)** and **Ayush Kumar (3415002723)** of CSE-1 5<sup>th</sup> semester have presented Research Paper titled "Non-Invasive Multi-Parameter Health Monitoring via All-Purpose PPG System" in NCI-TIDE 2025 held on 18<sup>th</sup> - 19<sup>th</sup> November 2025.
- **Naina Sharma (1215002723)** of CSE-1 5<sup>th</sup> semester was among Top 35 Finalist among 200+ participants in hackathon organized by MeraNivas held on 10<sup>th</sup> December 2025.
- **Mayank Somvanshi (21615002724)** of CSE-2 3<sup>rd</sup> semester has Participated in Code Slayer 2k25 by DevSphere India and NIT Delhi held on 30<sup>th</sup> September 2025.

## STUDENT ACHIEVEMENTS

- **Mayank Somvanshi (21615002724)** of CSE-2 3<sup>rd</sup> semester was Finalist — BITS Dubai × IIIT Allahabad – Innostorm Ideathon held on 06<sup>th</sup> October 2025.
- **Mayank Somvanshi (21615002724)** of CSE-2 3<sup>rd</sup> semester has won Rank 939 Globally in The Huntress CTF Challenge, by John Hammond held on 01<sup>st</sup> October 2025.
- **Mayank Somvanshi (21615002724)** of CSE-2 3<sup>rd</sup> semester has won Rank 738 Globally in picoMini CTF by Carnegie Mellon University -Africa held on 1<sup>st</sup> - 16<sup>th</sup> October 2025.
- **Mayank Somvanshi (21615002724)** of CSE-2 3<sup>rd</sup> semester has won Top 15 Finalists in The Offline Round of National Kalam STEM Conclave-2025 held on 13<sup>th</sup> - 15<sup>th</sup> October 2025.
- **Mayank Somvanshi (21615002724)** of CSE-2 3<sup>rd</sup> semester has won Rank 26 in EscalateX V2 CTF Challenge, GLA University Mathura held on 11<sup>th</sup> October 2025.
- **Mayank Somvanshi (21615002724)** of CSE-2 3<sup>rd</sup> semester has Participated in EY DSCI Hacakthon, Pullman Aerocity held on 3<sup>rd</sup> December 2025.

## STUDENT ACHIEVEMENTS

- **Sarthak Singh, Sameer Diwakar, Prabhat Krishna, Jatin Gupta** of BTech CSE-E, 5<sup>th</sup> semester, secured 1<sup>st</sup> price (Rs. Two Lakhs) in “Walmart Sparkathlon 2025”.
- **Mayank and Sukhvir Singh** of BTech CSE-E, 5<sup>th</sup> semester, secured 3<sup>rd</sup> position in UX Voyage: an event by D’ Code: The competitive programming society in NSUT on 30<sup>th</sup> August 2025.
- **Mayank and Sukhvir Singh** of BTech CSE-E, 5<sup>th</sup> semester, secured 2<sup>nd</sup> position in Innovison in NSUT held on 4<sup>th</sup> November 2025.
- **Mayank and Sukhvir Singh** of BTech CSE-E 5<sup>th</sup> semester, secured 2<sup>nd</sup> position in Hack a Pirate: an event by D’ Code: The competitive programming society in NSUT on 31<sup>st</sup> August 2025.
- **Mayank and Sukhvir Singh** of BTech CSE-E 5<sup>th</sup> semester, are the winner in a track of HackCBS 8.0 in Shaheed Sukhdev College of Business Studies held on 7<sup>th</sup> - 8<sup>th</sup> November 2025.

# FDP



**A five-day FDP on “Data Analytics and Machine Learning” was held from 15<sup>th</sup> – 19<sup>th</sup> December 2025 at Maharaja Surajmal Institute of Technology (MSIT), organized by ICT Academy with the CSE & IT Department. The programme focused on hands-on training using Python on Google Colab.**

**The sessions were conducted by Mr. Sarthak Pathak, who explained key concepts effectively through practical demonstrations. Topics included data preprocessing, regression techniques, Decision Trees, Random Forest, and model evaluation.**

**A total of 24 faculty members participated and gained practical knowledge of implementing machine learning models using tools like NumPy, Pandas, and Scikit-learn. The FDP enhanced participants’ understanding and application of data analytics in teaching and research.**

# ACADEMIC INITIATIVES

- **Dr. Geetika Dhand, HOD(CSE Department), MSIT.** introduced the new curriculum framework, which includes four specialization pathways within the B. Tech CSE program, exploring New Scheme options for 2<sup>nd</sup> year Students on 12<sup>th</sup> August 2025 organized by Department of Computer Science and Engineering (1<sup>st</sup> Shift).
- **Dr. Anil Sharma, AI Research Engineer at Samsung,** delivered a three Days Lecture Series on “Generative Artificial Intelligence” on 13<sup>th</sup> October 2025 to 15<sup>th</sup> October 2025, for B.Tech 3<sup>rd</sup> year students.
- **Mr. Rishabh Gupta, DUCAT,** delivered a Seminar on “Generative AI” on 12<sup>th</sup> November 2025, for B.Tech 2<sup>nd</sup> year students.
- **Mr. Ajay Katana (CTO, Geeks of Gurukul)** delivered an in-depth session on Blockchain, Web 3.0 and smart contract development on 17<sup>th</sup> November 2025 at MSIT . The session was conducted in collaboration with Geeks of Gurukul, and was specifically conducted for B.Tech 3<sup>rd</sup> year students.

# EDUCATIONAL VISIT



## Industrial visit to DUCAT Vikaspuri on 16<sup>th</sup> September 2025 Organised by the Department of Computer Science and Engineering

A formal industrial visit was organised by the Computer Science & Engineering Department of Maharaja Surajmal Institute of Technology on 16<sup>th</sup> September 2025 to DUCAT, Vikaspuri, New Delhi. The visit aimed to provide 3rd semester students with practical exposure to Artificial Intelligence, Computer Vision, and Deep Learning. It was conducted under the guidance of Ms. Kirti Dahiya and Mr. Deepak, with participation from 50 students.

# EVENT GALLERY



भारतमा संस्था  
महाशय्या सुवर्णमाला  
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## **PATRON**

**Prof.(Dr.) Avanish Kumar Srivastava**  
(Director, MSIT)

## **CHIEF EDITOR**

**Dr. Geetika Dhand**  
(HOD CSE, 1<sup>st</sup> Shift)

## **CO-CHIEF EDITOR**

**Dr. Nishtha Jatana**  
(HOD CSE, 2<sup>nd</sup> Shift)

## **EDITOR**

**Ms. Sonica Upadhyay**  
(Assistant Professor, CSE)

## **DESIGNED BY**

**Manas Gulati (3<sup>rd</sup> year, CSE-1)**  
**Ayush Kumar(3<sup>rd</sup> year, CSE-1)**  
**Suhani Nagpal (3<sup>rd</sup> year, CSE-3)**  
**Dhanya Manocha(2<sup>nd</sup> year, CSE-2)**